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Architecture

	<p>PLTW Introduction to Engineering Design</p> <p>PLTW Civil Engineering and Architecture</p> <p>Geometry in Construction</p> <p>PLTW Principles of Engineering Design</p> <p>Design 214: Architectural Design (application required)</p> <p>College Practical Architectural Construction</p>	
High School District 214 Graduation Requirements		
English	<p>English English English English</p> <p>Course Descriptions Section - Page 223</p>	4.0 credit units
Mathematics	<p>Mathematics Mathematics Mathematics Mathematics <small>(Recommended)</small></p> <p>Including one unit of Algebra I and one unit of Geometry.</p> <p>Course Descriptions Section - Page 251</p>	3.0 credit units
Social Science	<p>Social Science Social Science Social Science <small>(Recommended)</small></p> <p>Must include one year of U.S. History or combination of U.S. History and American Government and one semester civics.</p> <p>Course Descriptions Section - Page 269</p>	2.0 credit units
Science	<p>Science Science Science <small>(Recommended)</small></p> <p>Course Descriptions Section - Page 261</p>	2.0 credit units
Career & Technical Education	<p>Career and Technical Education</p> <p>Course Descriptions Section - Page 275</p>	1.0 credit unit
Fine Arts	<p>Fine Arts</p> <p>Course Descriptions Section - Page 239</p>	0.5 credit unit
Consumer Education	<p>Consumer Education</p> <p>Students meet the consumer education graduation requirement by passing one of the following courses or combination of courses: Personal Finance (06210) - Page 288, Economics (07830) - Page 273, Consumer Education (59940) - Page 274.</p>	0.25 credit unit
Physical Education	<p>Physical Education Health Physical Education Physical Education</p> <p>A minimum of 3-5 days of daily physical education is a required course for all students in each of four years of high school. The State also requires that students during high school take a minimum of 18 weeks (one semester) of health education.*</p> <p>Course Descriptions Section - Page 309</p> <p>Refer to page 327 in Academic Policies and Procedures section regarding substitutions for physical education.</p>	⊛

Post Secondary

Career Related Electives

- Art 1
- College Entrepreneurship (DC)
- Graphic Art Design
- AP Physics C

Career Related Activities for the Architecture pathway

- Athletics
- Architectural Showcase
- District Career Days
- District Career Nights
- District Career Treks
- Robot Rumble
- Skills USA
- Wildstang FIRST Robotics

Four-Year University Admission Requirements

- English (4 years)
- Mathematics (4 years)
- Social Science (3-4 years)
- Science (2-3 years)
- World Language (2-3 years)
- Fine Arts (1-2 years)

See your counselor regarding admission requirements for highly selective institutions.

Honors, Advance Placement and Dual Credit courses are offered throughout the curriculum. Please consult with your high school counselor for the latest information regarding course offerings, scheduling and registration for all career pathways and courses.

**This represents the number of units of credit required at full implementation for the graduating class of 2012 and beyond (12 units, assuming a unit is equivalent to a year-long course). Additionally, physical education, while not a state graduation requirement is a required course for all students a minimum of 3-5 days a week in each of four years of high school (See ILCS 110,5/27-6 and 23 Ill. Adm. Code Section 1.425).*



The Design214 course gives students interested in building-related careers the opportunity to design a home or building and possibly see their plans come to life.

The goal of the course is to teach students how residential and commercial buildings are planned and constructed. Students learn how to deal with real-world factors when designing these spaces—budgets, residential variances and easements, exterior landscapes and the permitting process.

They also design and draw their own site plans, including floor plans, elevations and kitchen layouts. As part of the course, students are introduced to computer-aided drafting and how it relates to the field of architecture.

The majority of students in Design214 have taken at least one engineering course and want to pursue careers in construction, interior design, architecture or real estate.

The class is taught after school during the second semester at the District office in Arlington Heights.